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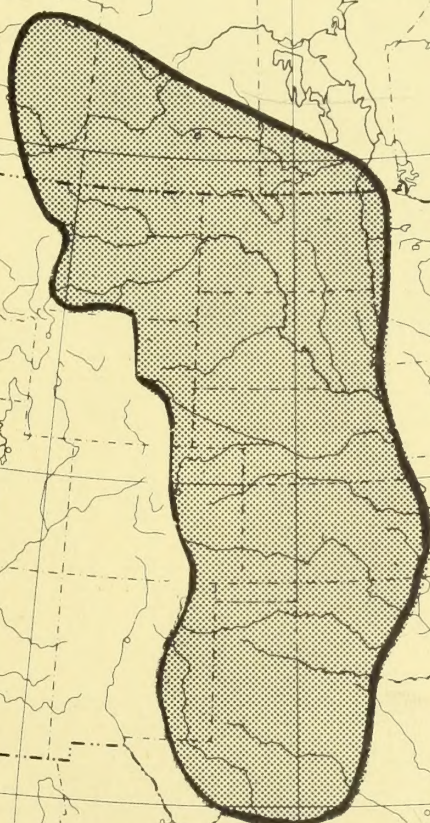
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# BIBLIOGRAPHY

of

## GREAT PLAINS FORESTRY

by  
*Ralph A. Read, Research Forester*



ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION  
RAYMOND PRICE, DIRECTOR FORT COLLINS, COLORADO  
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GREAT PLAINS FORESTRY

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by

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## INTRODUCTION

Interest in tree planting in the Great Plains of the United States and Canada has waxed and waned periodically since land settlement. Periods of increasing interest were during the 1870's, early 1900's, early 1920's, and late 1930's.

In the past 5 years increasing emphasis has again been placed upon action and research programs of tree planting and associated problems of windbreak protection and land use in the agriculture of the Great Plains.

Because of this renewed interest it is desirable to take a fresh look at the background of literature on the subject and carefully review previous accomplishments. In this way we can profit from past experience and prevent repetition of mistakes. A critical evaluation of past work can also aid in pointing out the important problems to be considered in current and future research programs.

The background in Great Plains tree planting consists of nearly 100 years of experience. Many of the problems faced today were recognized near the turn of the century by a handful of men devoted to a pioneering job in this new and different phase of the field of forestry.

Many foresters in the Great Plains region have voiced the need for a Bibliography; the Forestry Committee of the Great Plains Agricultural Council has been especially encouraging. Various members of this committee reviewed this manuscript.

The purpose of this Bibliography is to bring together the world's literature on the subject of windbreaks over the past 80 years.

No bibliography covering a field so broad can be absolutely complete, but an earnest effort was made to include all pertinent literature on natural and planted stands of trees, and related windbreak problems in the Great Plains region of the United States and Canada. References on windbreak influences work in Europe and Asia, included as a separate part of the Bibliography, are restricted to afforestation, windbreak planting, and windbreak influences. An index to broad subject-matter groups is provided to facilitate use of the Bibliography.

### The Great Plains Region

The Great Plains is one of the largest physiographic provinces in North America (see cover map). It occupies 24 percent of the total land area of continental United States, and a portion of Canada.

The region extends 1,700 miles in length, from 29 to 54 degrees north latitude, from San Antonio, Texas, to Edmonton, Alberta. It is bounded on the west by foothills of the Rocky Mountains, and on the east by a gradual change from open to wooded or forested lands.

Land surface is predominantly level to undulating, and ranges in elevation above sea level from 500 feet in the east to over 6,000 feet in the west. Soils are generally calcareous--derived mostly from sedimentary rocks, from glacial till, and from windblown material. Soils are greatly influenced by the former cover of prairie grasses.

Today, 35 percent of the Great Plains land area in United States is devoted to agricultural crops, 56 percent remains in grassland range, and 6 percent is devoted to other uses. Only 3 percent is occupied by natural forest or woodland vegetation.



Climate, the most distinctive feature of the region, is classified as subhumid to semiarid, and is characterized by:

1. Persistent and high velocity winds.
2. Generally low and highly variable precipitation.
3. High frequency of drought.
4. Rapid and extreme changes of temperature.
5. High evaporation.

All these characteristics combine to make the Great Plains a difficult and uncertain environment in which to live and to pursue an agricultural way of life.

Because of these characteristics, the establishment, culture, and care of trees as windbreaks to modify environment is an important part of Great Plains land use. Tree windbreaks reduce wind movement and improve other environmental conditions, thus protecting farm and ranch homes, cultivated fields, gardens and orchards, barns and feedlots, livestock on pasture and range, and wildlife.

## CONTENT OF BIBLIOGRAPHY

The Bibliography is in three parts:

Part I. Subject-matter index.

Part II. Alphabetical listing by author of pertinent publications from the United States and Canada.

Part III. Alphabetical listing by author of publications from nations other than the United States and Canada.

### Part I. - Subject-Matter Index

The subject-matter index contains all references listed in the Bibliography. An outline of subject-matter (page 8) precedes the index. Because of the broad range of subjects covered, it was not feasible to index all publications in detail. Publications may be indexed under several categories depending upon coverage and emphasis. Some, especially bulletins of broad scope, are listed in the General subheading, as well as under specific subjects. On the other hand, some articles which were not available to the bibliographer, but which he felt should be included, may be listed only under the General heading, even though they may contain information on specific subjects.

### Part II. - Publications - United States and Canada

This part contains publications on the following subjects:

1. Production of tree planting stock.
2. Establishment, maintenance, protection, and influences of tree windbreaks in the Great Plains of the United States and Canada.
3. The use of windbreaks in other states to the east and west of the Great Plains.



4. Natural forests of the Plains region, sandhills plantations of the Nebraska National Forest, and the Plains Shelterbelt Project of the 1930's.
5. Background and general reference information pertinent to Plains forestry including the physical features and resources of the Plains region.

Publications date back to the 1870's when Plains settlement began.

### Part III. - Publications - Other Nations

This part contains a selection of publications on the establishment, maintenance, protection, and influences of windbreaks in nations other than the United States and Canada. Most of these were taken from the "Shelterbelts and Windbreaks" and "Afforestation" sections of Forestry Abstracts, available in most agricultural libraries. Other abstracting journals cited are: Soils and Fertilizer Abstracts, Plant Breeding Abstracts, Bibliography of Agriculture, and Forest Soils Research Committee Report of Soil Science Society of America. Although most of the articles listed in these abstracting journals are originally in a foreign language, the short English abstract may prove useful to the investigator in determining whether or not to seek the original or a translation.

A number of the items are processed or typewritten translations available from the U. S. Forest Service or U. S. Department of Agriculture Library, Washington, D. C.

A few items are taken from the citation lists of other publications listed herein; for example, from Caborn, Cadman, or Gloyne. These were not available, but because the subject matter was pertinent they are included as separate items for reference.

## Abbreviations

Abbreviations for names and titles of publications follow U. S. Department of Agriculture practice in most cases. However, many references from Abstracting Journals in Part III follow the abbreviations used in the journals. Other abbreviations needing explanation are as follows:

IUFRO - International Union of Forest Research Organizations.

VNIALMI - All-Union [Russian] Research Institute for Forestry  
in Agricultural Improvement.

## Geographic Distribution of Foreign Reference Subject Matter

|                                | <u>No.</u>                                  |
|--------------------------------|---|
| Scandinavian                   | Denmark . . . . . 15                        |
|                                | Sweden, Norway, and Iceland . . . . . 9     |
| British Isles                  | Great Britain . . . . . 25                  |
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|                                | Ireland . . . . . 1                         |
| Western Europe                 | Germany, Switzerland, and Austria . . . 88  |
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|                                | Romania and Bulgaria . . . . . 44           |
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| Russia . . . . . 134           |   |
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PART II

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of

Great Plains Forestry

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